BRUHAT BENGALURU MAHANAGARA PALIKE

YELAHANKA ZONE

NAME OF WORK : IMPROVEMENTS TO ROADS AND DRAINS AT KONDAPPA LAYOUT WESTERN SIDE CROSS ROADS IN WARD NO.02 OF YELAHANKA SUB-DIVISION

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Estimate Cost Rs. 25.00 Lakhs Rate	Amount
1	**Removing B.S. slab** of Drain and stacking (P No.25 / I N 5.32)								
	for Drain	Sqm							
	Nanjappa boundary		2	52.00	0.90		93.60		
							93.60	65.72	**6151.39**
	Basic Rate	62.00							
	Area Weightage @ 6%	3.72							
	Total	**65.72**							
2	KSRRB 300 - Excavation for road, drains and similar works - KSRRB 300-1 Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH Chapter 3 (P.142/I.19.1)								
	Desilting for Drain	Cum							
	Nanjappa boundary		2	55.00	0.60	0.60	39.60		
							39.60	86.92	**3442.03**
	Basic Rate	82.00							
	Area Weightage @ 6%	4.92							
	Total	**86.92**							
3	KSRB 2-1.1 : Earthwork in surface excavation in **ordinary soil** for **levelling and lowering** the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface leveled and neatly dressed, disposed earth to be leveled after breaking of clods and neatly dressed as per specifications. specification. No. KBS 2.1 (a) / 2.3.1 (P.5/I.2.1)								
	Nanjappa boundary	Cum							
	for road		1	56.00	5.00	0.30	84.00		
			1	80.00	5.00	0.30	120.00		
			1	15.00	4.00	0.35	21.00		
			1	20.00	5.00	0.30	30.00		
							255.00	166.42	**42437.10**
	Basic Rate	157.00							
	Area Weightage @ 6%	9.42							
	Total	**166.42**							
4	KSRB 2-2.1 : **Earth work excavation** for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, **in ordinary soil** not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification, No, KBS 2.1(a) / 2.3.5, No.5/Item No. 2.3)								
		Cum							
	for drain		1	77.00	1.00	1.10	84.70		
			1	5.00	1.50	1.00	7.50		
	for water line		1	172.00	0.60	0.75	77.40		
							169.60	200.34	**33977.66**
	Basic Rate	189.00							
	Area Weightage @ 6%	11.34							
	Total	200.34							
5	KSRRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregate /sand/kaner/ Moorum KSRRB M100-1 Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications MORTH -100/ Chapter 1 (Page No.133/ Item No 17.1)								

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
		Cum							
	Average Weight of Earth 1.28			Qty Vide Item No.2+3+4			464.20	100.00	46420.00
	Basic Rate Lead Charges for	32.00							
	Add loading and unloading Item	68.00							
	Total	**100.00**							
6	**Refixing stone slabs** of drains and pointing in C.M (1:3)(P No 25/I No 5.33)								
		Sqm							
				70% of Qty Vide Item No.1			65.52	80.56	5278.29
	Basic Rate	76.00							
	Area Weightage @ 6%	4.56							
	Total	**80.56**							
7	Providing and fixing to wall, ceiling and floor, high density polyethylene pipes 6.00 kgs/sq.cm working pressure 90mm outside diameter raising mains & exposed distribution pipes with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor including cost all material, labour charges, HOM of equipments and testing complete as per specifications (P N .94 I.N 13.73.4)								
		Rmtr							
			1	172.00			172.00		
							172.00	**502.44**	**86419.68**
	Basic Rate	474.00							
	Area Weightage @ 6%	28.44							
	Total	**502.44**							
8	Refilling available earth around pipelines, cables in layers not exceeding 20cms in depth compacting each deposited layers by ramming after watering lead upto 50m and lift upto 1.5m including cost of labour complete as per specification (P No.6 I.No.2.11)								
		Cum							
			1	172.00	0.60	0.75	77.40		
							77.40	**80.56**	**6235.34**
	Basic Rate	76.00							
	Area Weightage @ 6%	4.56							
	Total	**80.56**							
9	KSRB 4-1.3: Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregates @ 0.57cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications Specification No KBS 4.1, 4.2 (P.12/I.4.3)								
		Cum							
	for road		1	56.00	5.00	0.15	42.00		
			1	79.00	5.00	0.15	59.25		
			1	14.00	3.00	0.15	6.30		
			1	20.00	4.80	0.15	14.40		
	for drain		1	77.00	1.00	0.15	11.55		
			1	5.00	1.00	0.15	0.75		
							134.25	5159.02	**692598.44**
	Basic Rate	4867.00							
	Area Weightage @ 6%	292.02							
	Total	**5159.02**							

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
10	KSRB 4-1.7 : Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs with 20mm and down size graded granite metal coarse aggregate @ 0.84cum and fine aggregate @ 0.56 cum machine mixed concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, specification No. KBS 4.1,4.2 (P No. 13 / Item No.4.7) packing cc								
		Cum							
			2	50.00	0.15	0.10	1.50		
			2	77.00	0.15	0.10	2.31		
							3.81	5598.92	**21331.89**
	Basic Rate	5282.00							
	Area Weightage @ 6%	316.92							
	Total	**5598.92**							
11	KSRB 4.9.2: Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 -do- TMT Bars Fe 500 P.17/It.No.4.46.2								
		tonne	No.of Bars	Vidth/Lengt	Rmtr	Kg/Rmtr	Total in Kg		
	16mm dia main bar spacing at 150mm c/c	1	33	1.50	49.50	1.580	78.21		
	10mm dia dist bar spacing at 150mm c/c	1	10	5.00	50.00	0.617	30.85		
	16mm dia cranked bar spacing at 300mmc/c	1	17	1.80	30.60	1.580	48.35		
	(for drain) 12mm dia main bar spacing at 150mm	1	390	2.30	897.00	1.580	1417.26		
	10mm dia dist bar spacing at 150mm c/c	1	15	77.00	1155.00	0.617	712.64		
						in Kg	2287.30		
						in Qtl	22.8730		
						in tonne	**2.2873**	59413.00	**135895.53**
	Basic Rate	56050.00							
	Area Weightage @ 6%	3363.00							
	Total	**59413.00**							
12	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.21 (P.15 / I.4.31)								
		Sqm							
			2x2	76.00		0.75	228.00		
							228.00	310.58	**70812.24**
	Basic Rate	293.00							
	Area Weightage @ 6%	17.58							
	Total	**310.58**							
13	Providing & laying in position reinforced cement concrete of Design mix M20 with OPC cement @ 320kgs , with 20mm and down size graded granite metal,coarseaggregated @ 0.69cum ,and fine aggregated @ 0.460cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed -2008 machine mixed concrete laid in layers not exceeding 15 crns thick, vibrated for all works in foundation for footings,pedestals,retaining walls, return walls, walls (any thickness) including attached plasters, columns, piers, abutments, pillars, posts,struts, buttresses, bed blocks, anchor blocks, plinths etc.,including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications.specifications No.KBS 4.1,4.6 (P.No.13/ I.No.4.11)								
		Cum							
	for drain wall		2	75.00	0.15	0.75	16.88		

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
	bed		2	5.00	0.15	0.70	1.05		
			1	75.00	0.90	0.15	10.13		
			1	5.00	1.20	0.15	0.90		
							28.95	6371.66	**184459.56**
	Basic Rate	6011.00							
	Area Weightage @ 6%	360.66							
	Total	**6371.66**							
14	Providing and fixing **RCC precast Slabs of 0.10 m thick of CC 1:2:4 with 20 mm** and down size graded granite metal , machine mixed , including cost of all material , labour , HOM of Machinery , curing complete								
		Sqm							
	for Drain covering slab		1	77.00	1.00		77.00		
				30% of Qty Vide Item No.1			28.08		
							105.08	2100.00	**220668.00**
	Data Rate	**2100.00**							
15	Providing and laying cement concrete using 20mm and down size granite jelly of ready mixed concrete **(RMC)** M20 for R.C.C works laid in 15cms thick layers and well compacted vibrating, curing, for raft foundation, column footing, main and secondary beams with all lead and lifts etc.,complete (exclusive of cost of steel and fabrication charges.) Page No.18 / Item No. 4.48)								
		Cum							
			1	56.00	5.00	0.125	35.00		
			1	79.00	5.00	0.125	49.38		
			1	14.00	3.40	0.125	5.95		
			1	20.00	4.80	0.125	12.00		
							102.33	6231.74	**637662.80**
	Basic Rate	5879.00							
	Area Weightage @ 6%	352.74							
	Total	**6231.74**							
16	**Vaccum De-watering** with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator HOM of machinery Screed Vibratiry, Power Floater, blade and disc etc , with all lead and lift (P.177/ I.22.7)								
		Sqm							
			1	56.00	5.00		280.00		
			1	79.00	5.00		395.00		
			1	14.00	3.40		47.60		
			1	20.00	4.80		96.00		
							818.60	95.40	**78094.44**
	Basic Rate	90.00							
	Area Weightage @ 6%	5.40							
	Total	**95.40**							
17	Providing Groove cutting for width of 5mm to 10mm and depth 80mm-100mm including cost of cutting machine generator and HOM of machinery including cost of blade, coolant etc., including cleaning aof groove & providing sand and hot bitumen fillars and filler metal etc ,including cost of conveyance of all materials, labour,lead and lift charges and all the other incidental charges as per drawing and as per specifications, MORTH specification. (P.178/ I.22.8)								
		m							
			4	5.00			20.00		
			1	56.00			56.00		
			1	79.00			79.00		

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
			1	20.00			20.00	121.90	21332.50
							241.60	124.20	30006.72
	Basic Rate	115.00							
	Area Weightage @ 8 %	9.20	6.90						
	Total	124.20	121.90						
									2293246.89
						Sub-Total Amount			2293128.29
20	9% for KRIDL Charges								206389.52 / 206381.55
21	Miscellaneous and unforeseen charges	LS							490.16 / 393.59
						Grand Total Amount			2500000.00
	(RupeesTwenty Five Lakhs Only)								

CERTIFICATE

1) The site has been inspected and the work is found to be necessary
2) The rates adopted are as per PW,P IWTD SR of 2016-17 and data rate of Bangalore Circle
3) The provisions were made in this estimate are necessary and adequate
4) The area comes under the Bruhat Bengaluru Mahanagara Palike Limits

Assistant Engineer
Ward No.02

Assistant Executive Engineer
Yelahanka Sub-Division
B.B.M.P

Executive Engineer
Yelahanka Division
B.B.M.P

Administrative Approval

Accorded For ..... 25-00 lakhs Rs
Head of A/C..... P-3111
CER NO :..... 84 ..... Dt:.. 04-01-17

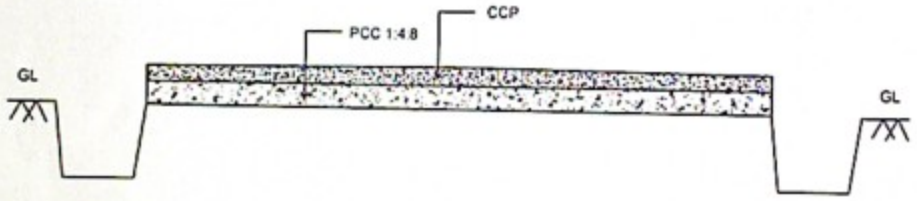
TA CE (YNK)

Technical Sanction

Accorded For ..... 25-00 lakhs Rs.
Head of A/C..... P-3111
CER NO :..... 93 ..... Dt:.. 04-01-17

TA CE (YNK).

NAME OF WORK : IMPROVEMENTS TO ROADS AND DRAINS AT KONDAPPA LAYOUT WESTERN SIDE CROSS ROADS IN WARD NO.02 OF YELAHANKA SUB-DIVISION

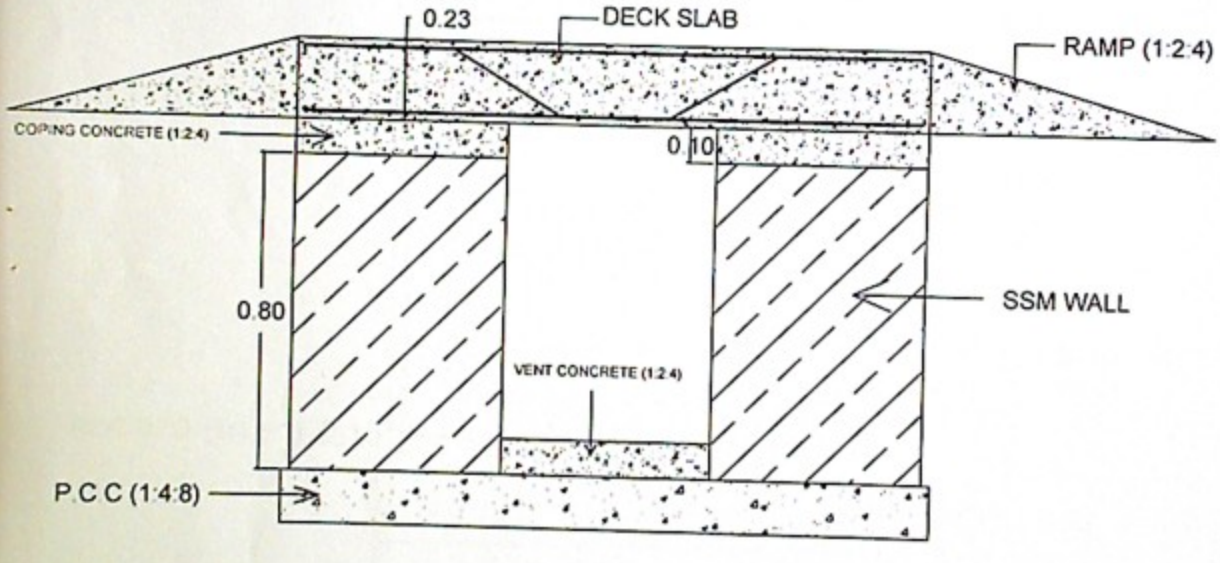


TYPICAL CROSS SECTION OF CC ROAD

(A.E)

(A.E.E)

NAME OF WORK : IMPROVEMENTS TO ROADS AND DRAINS AT KONDAPPA LAYOUT WESTERN SIDE CROSS ROADS IN WARD NO.02 OF YELAHANKA SUB-DIVISION

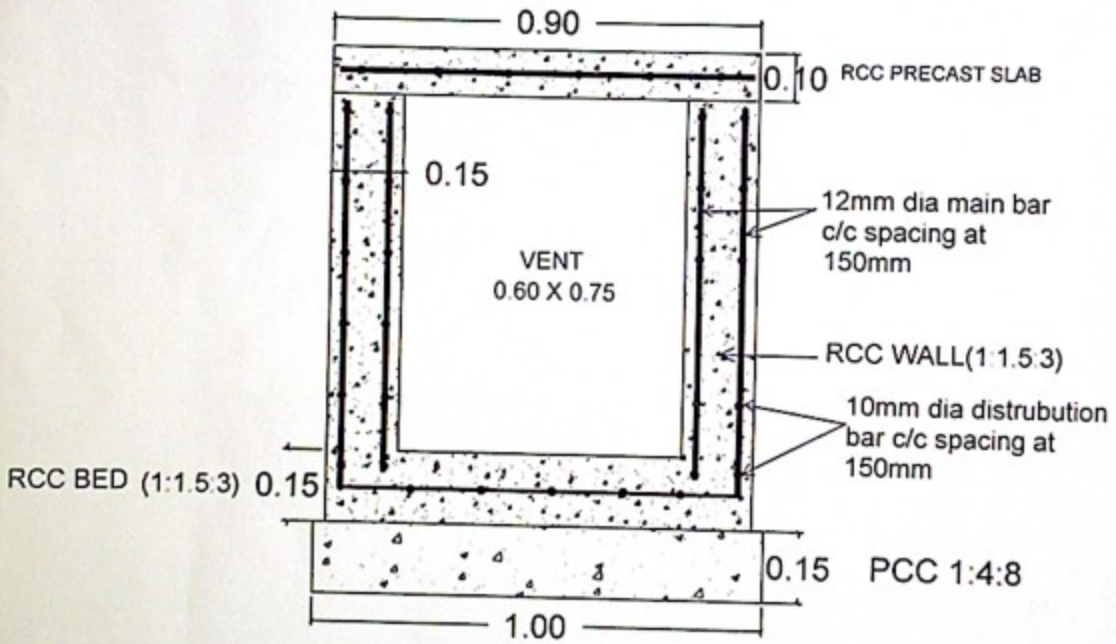


CROSS SECTION OF CULVERT

(A-B)

(A-B.B)

NAME OF WORK : IMPROVEMENTS TO ROADS AND DRAINS AT KONDAPPA LAYOUT WESTERN SIDE CROSS ROADS IN WARD NO.02 OF YELAHANKA SUB-DIVISION



CROSS SECTION OF RCC DRAIN

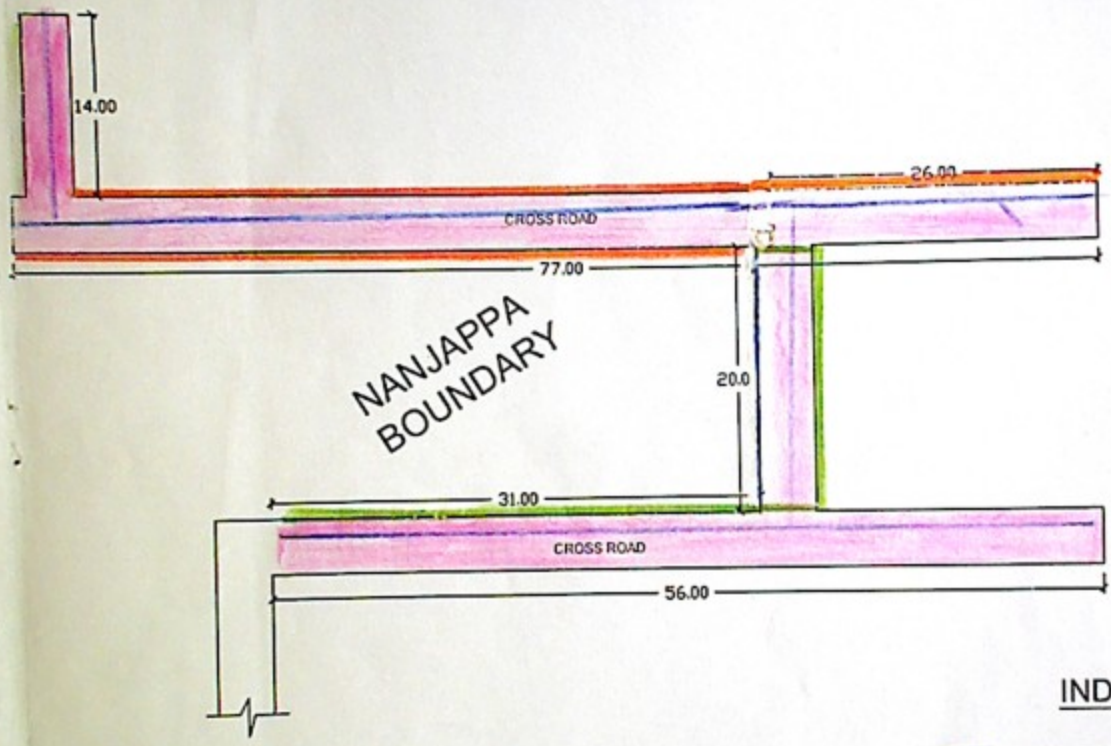
(A.E)

(EA.E.E)

NAME OF WORK : IMPROVEMENTS TO ROADS AND DRAINS AT KONDAPPA LAYOUT WESTERN SIDE CROSS ROADS IN WARD NO.02 OF YELAHANKA SUB-DIVISION

KEY : NOT TO SCALE

N



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- CC DRAIN
- CC TO ROAD

Assistant Engineer
Ward No.02
B.B.M.P

Assistant Executive Engineer
Yelahanka Sub-Division
B.B.M.P